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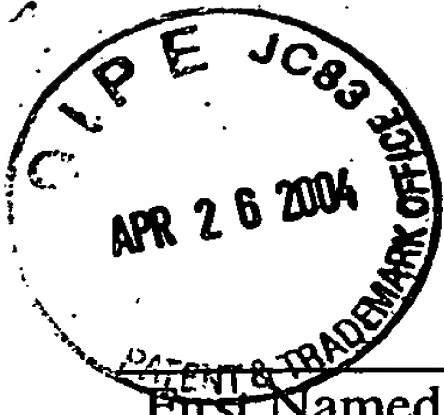
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Docket: 7211.01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor:	Eric Henderson	
Application No.:	09/929,865	
Filing Date:	August 14, 2001	Examiner: Unknown
Title:	Nanoscale Molecular Arrayer	Group Art Unit: 3745

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR 1.97(b)

Commissioner for Patents  
Washington, D.C. 20231

I hereby certify that this document is being sent via First Class U. S.  
mail addressed to: Commissioner for Patents, Washington, D.C.  
20231 on this 27 day of November, 2001.

Francesco Ercole  
(Signature)

Dear Sir:

Pursuant to 37 CFR 1.97(b), the references listed on the attached Form PTO-1449 (1 sheet, submitted in duplicate) are brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the identified references are enclosed as necessary. This IDS is being filed before the mailing of a first office action on the merits. In accordance with 37 CFR 1.97(b), no statement or fee is required.

Respectfully submitted,  
DORSEY & WHITNEY LLP

Date: 11/27/01

By: Scott A. Marks  
Scott A. Marks (Reg. No. 44,902)  
Suite 1500  
50 South Sixth Street  
Minneapolis, Minnesota 55402-1498  
Telephone: 612-752-7314

APPLICATION NO. 09/929,865

FILING DATE  
August 14, 2001

GROUP ART UNIT  
3745

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(use several sheets if necessary)

**APR 26 2004**

[illegible]

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
							No
							No
							No
							No
							No

Examiner Initial	Document Description
	Hong, S. et al. "A Nanoplotter with Both Parallel and Serial Writing Capabilities", <u>Science</u> Vol. 288, No. 5472, June 9, 2000 6pgs.
	Hong, Z. et al. "Multiple Ink Nanolithography", Toward a Multiple-Pen Nano-Plotter", <u>Science</u> Vol. 286, No. 5439, October 15, 1999 5pgs.
	Piner, R.D., et al. "Dip-Pen Nanolithography", <u>Science</u> Vol. 283, No. 5402, January 29, 1999 5pgs.

**DATE CONSIDERED**

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Group Art Unit 1634

In re

Patent Application of

Eric Henderson, et al.

Application No. 09/929,865

Confirmation No.: 8708

Filed: August 14, 2001

Examiner: Betty Forman

"NANOSCALE MOLECULAR ARRAYER"

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT PURSUANT TO 37 CFR §1.97(c)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO 1449 and copies of which are attached. This Statement is also being accompanied by a check in payment of the \$180.00 fee required under 37 CFR §1.17(p). Please charge or credit Deposit Account No. 50-0842 with any shortage or overpayment of the required fee.

Citation of these references is respectfully requested.

No concession is made that these documents are prior art, and Applicant expressly reserves the right to antedate the documents as may be appropriate. A copy of each reference listed is attached.

Respectfully submitted,

  
Jill A. Fahrlander  
Reg. No. 42,518

File No. 016348-9005  
Michael Best & Friedrich LLP  
One South Pinckney Street  
P. O. Box 1806  
Madison, WI 53701-1806  
(608) 257-3501

I, Leslie Lindsay Smith, hereby certify that this correspondence is being deposited with the US Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date of my signature.

  
Signature

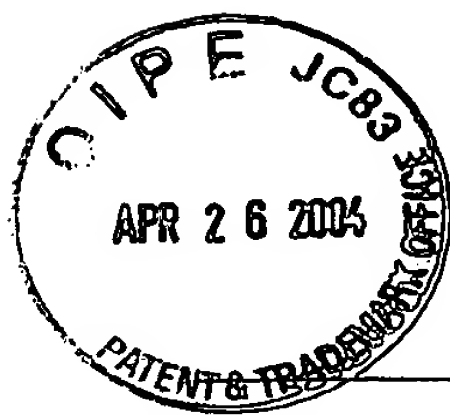
  
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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Rev. 2-92) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 016348/9005  
SERIAL NO.: 09/929,865  
APPLICANT: Henderson, et al.  
FILING DATE: August 14, 2001  
CONFIRMATION NO. 8708  
GROUP: 1634

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT:

(Use several sheets if necessary)



U.S. PATENT DOCUMENTS

EXAMINER R INITIAL		DOCUMENT NUMBER	DATE	NAME	C L A S S	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	USSN 09/974,757 US 2002/0042081	04/11/2002	Henderson <i>et al.</i>			
	AB	USSN 09/929,865 US 2002/0076927	06/20/2002	Henderson <i>et al.</i>			
	AC						
	AD	USSN 10/179,102 US 2003/0013111	01/16/2003	Henderson <i>et al.</i>			
	AE	USSN 10/160,372 US 2002/0172943 A1	11/21/2002	Henderson <i>et al.</i>			
	AF	USSN 10/128,727 US 2002/0123135	09/05/2002	Henderson <i>et al.</i>			
	AG						
	AH	US 2002/0179434 A1	12/05/2002	Dai <i>et al.</i>			
	AI	US 2002/0146714 A1	10/10/2002	Lieber <i>et al.</i>			
	AJ	US 2002/0122873 A1	09/05/2002	Mirkin <i>et al.</i>			
	AK	US 2002/0114987 A1	08/22/2002	Oscarsson <i>et al.</i>			
	AL	US 2002/0063212 A1	05/30/2002	Mirkin <i>et al.</i>			
	AM	4,728,591	03/01/1988	Clark <i>et al.</i>			
	AN	5,106,729	04/21/1992	Lindsay <i>et al.</i>			
	AO	5,138,174	08/11/1992	Tang			
	AP	5,143,854	09/01/1992	Pirrung <i>et al.</i>			
	AQ	5,314,829	05/24/1994	Coles			
	AR	5,346,683	09/13/1994	Green <i>et al.</i>			
	AS	5,363,697	11/15/1994	Nakagawa			
	AT	5,372,930	12/13/1994	Colton <i>et al.</i>			
	AU	5,384,261	01/24/1995	Winkler <i>et al.</i>			
	AV	5,440,122	08/08/1995	Yasutake			
	AW	5,443,791	08/22/1995	Cathcart <i>et al.</i>			
	AX	5,445,934	08/29/1995	Fodor <i>et al.</i>			
	AY	5,445,971	08/29/1995	Rohr, T.			
	AZ	5,453,970	09/26/1995	Rust <i>et al.</i>			
	BA	5,467,642	06/09/1998	Hosaka <i>et al.</i>			
	BB	5,472,881	12/05/1995	Beebe <i>et al.</i>			
	BC	5,482,601	01/09/1996	Ohshima, <i>et al.</i>			
	BD	5,514,540	05/07/1996	Teoule <i>et al.</i>			
	BE	5,514,550	05/07/1996	Findlay <i>et al.</i>			
	BF	5,519,212	05/21/1996	Elings <i>et al.</i>			
	BG	5,532,128	07/02/1996	Eggers <i>et al.</i>			

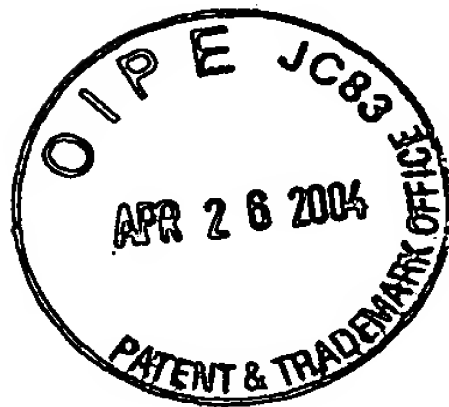
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BH	5,571,639	11/05/1996	Hubbell <i>et al.</i>		
BI	5,601,982	02/11/1997	Sargent <i>et al.</i>		
BJ	5,604,097	02/18/1997	Brenner		
BK	5,620,854	04/15/1997	Holzrichter <i>et al.</i>		
BL	5,666,190	09/09/1997	Quate <i>et al.</i>		
BM	5,670,322	09/23/1997	Eggers <i>et al.</i>		
BN	5,688,486	11/1/8/1997	Watson <i>et al.</i>		
BO	5,720,928	02/24/1998	Schwartz		
BP	5,744,305	04/28/1998	Fodor <i>et al.</i>		
BQ	5,753,088	05/19/1998	Olk, C.		
BR	5,760,300	06/02/1998	Kajimura, H.		
BS	5,763,768	06/09/1998	Henderson <i>et al.</i>		
BT	5,789,167	08/04/1998	Konrad		
BU	5,800,992	09/01/1998	Fodor <i>et al.</i>		
BV	5,837,832	11/17/1998	Chee <i>et al.</i>		
BW	5,840,862	11/24/1998	Bensimon <i>et al.</i>		
BX	5,846,724	12/08/1998	Bensimon <i>et al.</i>		
BY	5,851,769	12/22/1998	Gray <i>et al.</i>		
BZ	5,866,328	02/02/1999	Bensimon <i>et al.</i>		
CA	5,866,434	02/02/1999	Massey <i>et al.</i>		
CB	5,874,219	02/23/1999	Rava <i>et al.</i>		
CC	5,874,668	02/23/1999	Xu <i>et al.</i>		
CD	5,958,701	09/28/1999	Green <i>et al.</i>		
CE	5,965,133	10/12/1999	Cantor <i>et al.</i>		
CF	5,981,733	11/09/1999	Gamble <i>et al.</i>		
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CJ	6,004,617	12/21/1999	Schultz <i>et al.</i>		
CK	6,024,925	02/15/2000	Little <i>et al.</i>		
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CM	6,045,671	04/04/2000	Wu <i>et al.</i>		
CN	6,080,586	06/27/2000	Baldeschieler <i>et al.</i>		
CO	6,083,763	07/04/2000	Balch		
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CR	6,123,819	09/26/2000	Peeters		
CS	6,143,574	11/07/2000	Karlsson <i>et al.</i>		
CT	6,146,899	11/14/2000	Porter <i>et al.</i>		
CU	6,159,742	12/12/2000	Lieber <i>et al.</i>		
CV	6,171,797 B1	01/09/2001	Perbost		
CW	6,180,114	01/30/2001	Yager		

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	CX	6,200,737	03/13/2001	Walt <i>et al.</i>			
	CY	6,203,814 B1	03/20/2001	Fisher <i>et al.</i>			
	CZ	6,214,552	04/10/2001	Heroux, <i>et al.</i>			
	DA	6,218,122	04/17/2001	Friend <i>et al.</i>			
	DB	6,231,744 B1	05/15/2001	Ying <i>et al.</i>			
	DC	6,232,706 B1	05/15/2001	Dai <i>et al.</i>			
	DD	6,239,273 B1	05/29/2001	Pease <i>et al.</i>			
	DE	6,255,469	07/03/2001	Seeman <i>et al.</i>			
	DF	6,270,946	08/07/2001	Miller			
	DG	6,278,231 B1	08/21/2001	Iwasaki <i>et al.</i>			
	DH	6,284,497 B1	09/04/2001	Sabanayagam <i>et al.</i>			
	DI	6,287,850 B1	09/11/2001	Besemer <i>et al.</i>			
	DJ	6,289,717	09/18/2001	Thundat <i>et al.</i>			
	DK	6,309,831 B1	10/30/2001	Goldberg <i>et al.</i>			
	DL	6,329,209 B1	12/11/2001	Wagner <i>et al.</i>			
	DM	6,331,396 B1	12/18/2001	Silverman			
	DN	6,350,609	02/26/2002	Morozov <i>et al.</i>			
	DO	6,395,554	05/28/2002	Regan <i>et al.</i>			
	DP	6,406,921 B1	06/18/2002	Wagner <i>et al.</i>			
	DQ	6,416,952	07/09/2002	Pirung <i>et al.</i>			
	DR	6,420,105	07/16/2002	Landfield <i>et al.</i>			
	DS	6,436,647 B1	08/20/2002	Quate <i>et al.</i>			
	DT	6,518,168	02/11/2003	Clem <i>et al.</i>			
	DU	6,573,369 USSN 09/574,519	06/03/2003	Henderson <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	DV	JP 08094646	4/12/1996	SHIMADZU CORP			ABS
	DW	JP 07027771	1/31/1995	HITACHI LTD.			ABS
	DX	JP 06124680	1994	JEOL LTD.			ABS
	DY	WO 98/05920	2/12/1998	WILLIAM MARSH RICE UNIVERSITY (COLBERT)			
	DZ	WO 92/15709	9/17/1992	ABBOTT LABORATORIE			
	EA	WO 96/31775	10/10/1996	OSCARSSON			
	EB	WO 97/06420	02/02/1997	BENSIMON			
	EC	WO 97/18326	05/22/1997	PASTEUR INSTITUTE			

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	ED	WO 98/18959	5/7/1998	PASTEUR INSTITUTE			
	EE						
	EF	WO 99/31267	6/24/1999	SEPRACOR INC.			
	EG	WO 00/04382	1/27/2000	ZYOMYX, INC.			
	EH	WO 00/04389	1/27/2000	ZYOMYX, INC.			
	EI	WO 00/04390	1/27/2000	ZYOMYX, INC.			
	EJ	WO 00/36136	6/22/2000	PALATIN TECHNOLOGIES, INC.			
	EK	WO 00/41213	7/13/2000	NORTHWESTERN UNIVERSITY			
	EL	WO 00/46406	8/10/2000	ALPHAGENE, INC.			
	EM	WO 01/60316	08/23/2001	OSCARSSON, SVEN			
	EN	WO 01/918555	12/06/2001	NORTHWESTERN UNIVERSITY			
	EO	WO 03/001633	01/03/2003	NORTHWESTERN UNIVERSITY			
	EP	WO 03/036767	05/01/2003	UNIVERSITY OF ILLINOIS			
	EQ	WO 03/038033	05/08/2003	NORTHWESTERN UNIVERSITY			
	ER	WO 03/048314	06/12/2003	MIRKIN			
	ES	WO 03/052514	06/26/2003	NORTHWESTERN UNIVERSITY			

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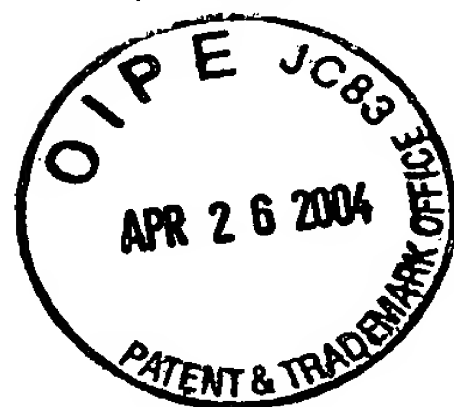
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GROUP: 1634

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

ET	"Microbeam Mass Spectrometry" <i>Chemical Science and Technology Laboratory, Surface and Microanalysis Science Division</i> <a href="http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm">http://www.cstl.nist.gov/div837/Divisoin/expertise/ions/masspec1.htm</a> 7/18/2002.
EU	Abstracts of Papers Part I, 214 <sup>th</sup> "Abstract 027" <i>ACS National Meeting American Chemical Society</i> , September 1997, 2 pgs.
EV	ALLISON, D., <i>et al.</i> , "Direct atomic force microscopy imaging of <i>EcoRI</i> endonuclease site specifically bound to plasmid DNA molecules" <i>PNAS USA</i> , 1996, 93:8826-8829.
EW	ALLISON, D., <i>et al.</i> , "Mapping Individual Cosmid DNAs by Direct AFM Imaging" <i>Genomics</i> , 1997, 41:379-384.
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EY	AMRO, <i>et al.</i> , "Patterning surfaces using tip-directed displacement and self-assembly" <i>Langmuir</i> , 2000, 16:3006-3009.
EZ	ANWANDER, <i>et al.</i> , "Surface characterization and functionalization of MCM-41 silicas via silazane silylation" <i>J. Phys. Chem. B.</i> , 2000, 104:3532-3544.
FA	ARNTZ, <i>et al.</i> , "Label-free protein assay based on a nanomechanical cantilever array" <i>Nanotechnology</i> , 14 (2003) 86-90.
FB	AUSUBEL, F.M., <i>et al.</i> "Current Protocols in Molecular Biology" 1993 ed. Vol. 1&2, 1993, Green Publishing Associates and Wiley-Interscience.
FC	AVOURIS, P., <i>et al.</i> , "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown" <i>Science</i> , April 2001, 292(5517):706-799..
FD	BAILEY, C.P., <i>et al.</i> , "Cationic oligonucleotides can mediate specific inhibition of gene expression in <i>Xenopus</i> oocytes" <i>Nuc. Acids Res.</i> , 1998, 26(21):4860-4867.
FE	BAIN, <i>et al.</i> , "Modeling organic surfaces with self-assembled monolayers" <i>Agnew. Chem. Int. Ed. Engl.</i> , 1989, 28(4):506-512.
FF	BASELT, D.R., <i>et al.</i> , "A biosensor based on magnetoresistance technology" <i>Biosens. Bioelectorn.</i> , 1998, 13(7-8):731-739.
FG	BEDOUELLE, H., "Reagentless fluorescent Immunosensors" <i>Antibody Engineering</i> , IBC's 13 <sup>th</sup> International Conference, December 2, 2002.
FH	BELAUBRE, P. <i>et al.</i> , "Fabrication of biological microarrays using microcantilevers" <i>Applied Physics Letters</i> , 5 May 2003, 82(18):3122-3124.

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

FI	BENSIMON, A., <i>et al.</i> , "Alignment and sensitive detection of DNA by a moving interface" <i>Science</i> , 1994, Sep 30; 265(5181):2096-2098 [PMID 7522347] Abstract.
FJ	BERGGREN, <i>et al.</i> , "Microlithography by using neutral metastable atoms and self-assembled monolayers" <i>Science</i> , September 1995, 269(5228):1255-1257.
FK	BERNARD, <i>et al.</i> "Printing patterns of proteins" <i>Langmuir The ACS Journal of Surfaces and Colloid</i> , April 1998, 14(9):2225-2229.
FL	BINGGELI, <i>et al.</i> , "Influence of capillary condensation of water on nanotribology studied by force microscopy" <i>Appl. Phys. Lett.</i> , July 1994, 65(4):415-417.
FM	BINNING, <i>et al.</i> , "Surface studies by scanning tunneling microscopy" <i>Phys. Rev. Lett.</i> , 1982, 49(1):57-61.
FN	BINNING, G., <i>et al.</i> , "Atomic force microscope" <i>Phys. Rev. Lett.</i> , 1986, 56(9):930-933.
FO	BISHOP, <i>et al.</i> , "Self-assembled monolayers: recent developments and applications" <i>Colloid &amp; Interface Science</i> , February 1996, 1:127-136.
FP	BOTTOMLEY, L., "Scanning probe microscopy" <i>Anal. Chem.</i> , June 1998, 70(12):425R-475R.
FQ	BRANDOW, S., <i>et al.</i> , "Metal pattern fabrication using the local electric field of conducting atomic force microscope probe" <i>J. Vac. Sci. Technol.</i> , May/June 1997, 15(3):1455-1459.
FR	BRENNER, S., <i>et al.</i> , "Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays" <i>Nat. Biotechnol</i> 2000, June 18(6):630-634, 2000.
FS	BRODY, E., and Gold, L., "Aptamers as therapeutic and diagnostic agents" <i>Molecular Biotechnology</i> , 2000, 74:5-13.
FT	BRUCKBAUER, <i>et al.</i> , "Writing with DNA and Protein Using a Nanopipet for Controlled Delivery" <i>JACS</i> , 2002, A-B.
FU	BULYK, <i>et al.</i> , "Quantifying DNA-protein interactions by double-stranded DNA arrays" <i>Nature Biotechnology</i> , June 1999, 17:573-577.
FV	BUSTAMANTE C., <i>et al.</i> , "Circular DNA Molecules Imaged in Air by Scanning Force Microscopy" <i>Biochemistry</i> , 1992, 31:22-26
FW	BUSTAMANTE, C., <i>et al.</i> , "Biochemical and structural applications of scanning force microscopy" <i>Curr. Opin. Struct. Biol.</i> , 1994 4(5):750-760.

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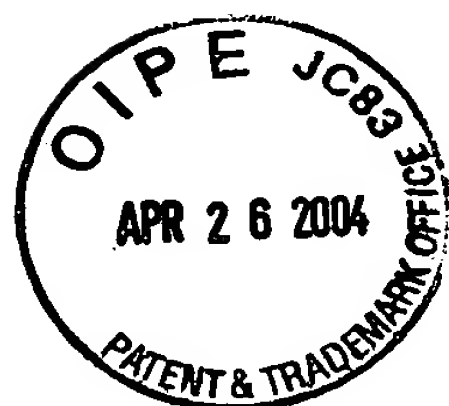
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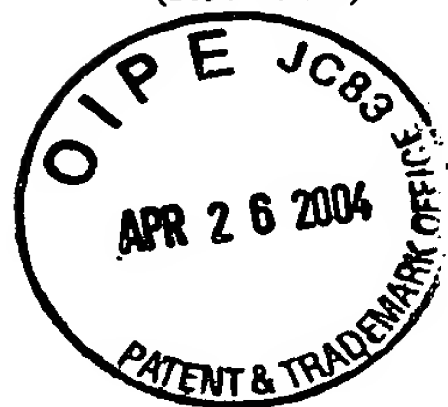
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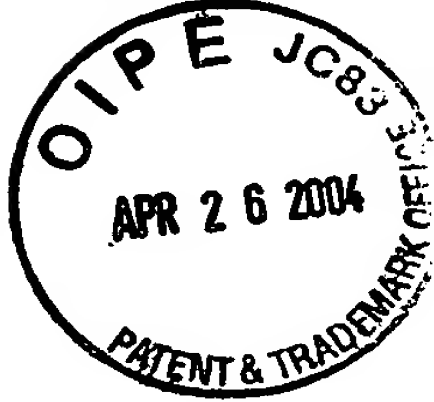
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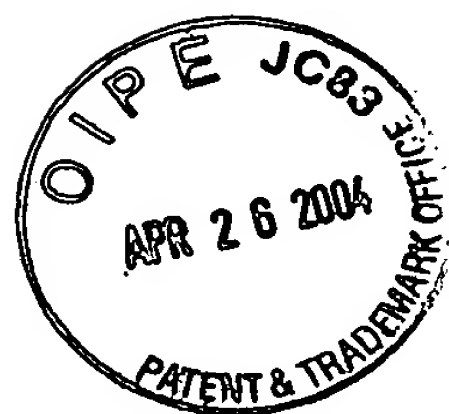
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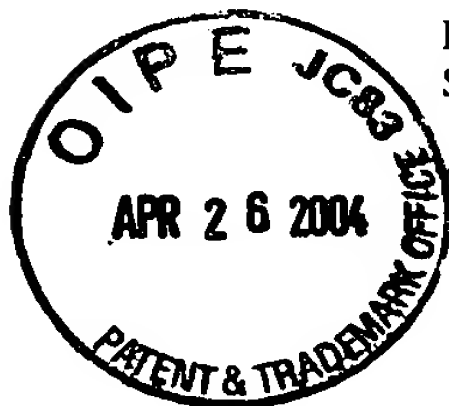
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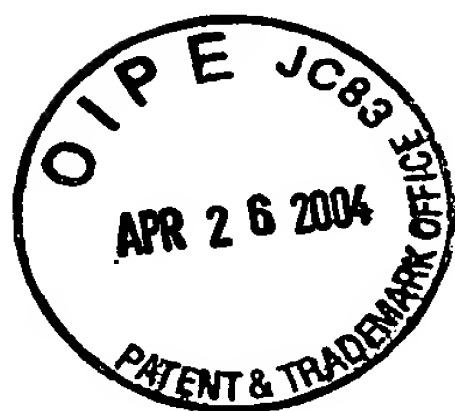
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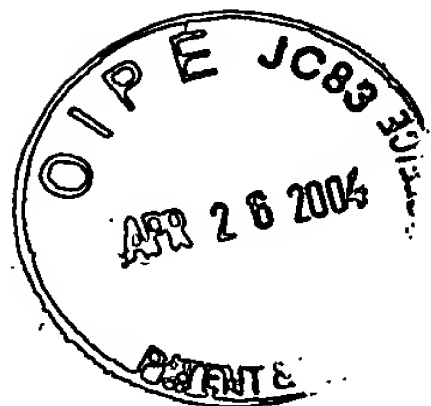
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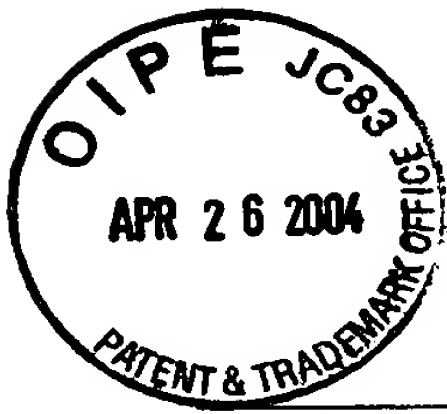
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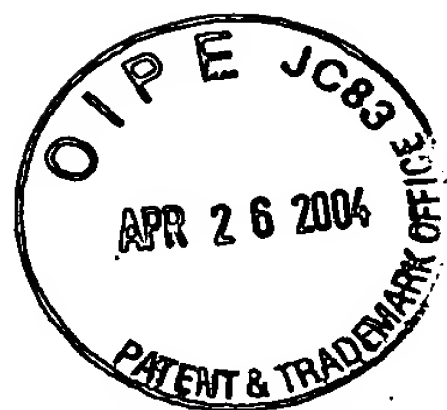
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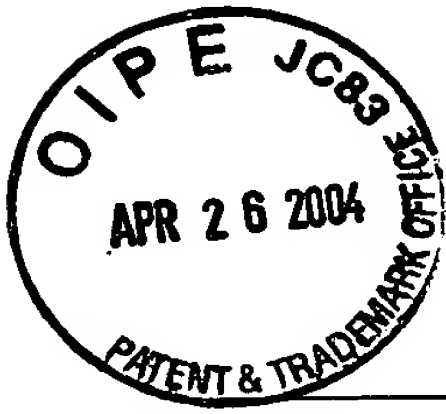


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EXAMINER

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